



US005793897A

# United States Patent [19]

Jo et al.

[11] Patent Number: 5,793,897  
[45] Date of Patent: Aug. 11, 1998

[54] ADAPTIVE VARIABLE-LENGTH CODING AND DECODING METHODS FOR IMAGE DATA

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[21] Appl. No.: 495,591

[22] PCT Filed: Dec. 16, 1994

[86] PCT No.: PCT/KR94/00177

§ 371 Date: Nov. 3, 1995

§ 102(e) Date: Nov. 3, 1995

[87] PCT Pub. No.: WO95/17073

PCT Pub. Date: Jun. 22, 1995

[30] Foreign Application Priority Data

Dec. 16, 1993 [KR] Rep. of Korea ..... 93-28074  
Dec. 15, 1994 [KR] Rep. of Korea ..... 94-34497

[51] Int. Cl.<sup>6</sup> ..... G06K 9/00

[52] U.S. Cl. .... 382/246; 382/239

[58] Field of Search ..... 382/232, 233, 382/235, 236, 238, 239, 244, 245, 246, 248, 250, 251, 252, 253, 240, 249, 270; 348/384, 390, 394, 395, 400, 401, 402, 403, 404, 405, 407, 431, 699; 358/426, 430, 432, 433, 261.1, 261.2, 261.3, 427; 386/81, 124

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[57] ABSTRACT

An adaptive variable-length coding/decoding method performs an optimal variable-length coding and decoding depending on an intra mode/inter mode condition, quantization step size and a current zigzag scanning position, such that a plurality of variable-length coding tables having different patterns of a regular region and an escape region according to statistical characteristics of the run level data are set. One of the variable-length coding tables is selected according to mode, quantization step size and scanning position, and the orthogonal transform coefficients according to the selected variable-length coding table are variable-length-coded.

7 Claims, 7 Drawing Sheets

